

Day- 1

Java programming

Course code – csa0998

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1 . Print welcome

Code :-

```
class welcome
```

```
{
```

```
    public static void main(String[] args) {
```

```
        System.out.println("welcome");
```

```
    }
```

```
}
```

Output:- welcome

2 . Sum of two numbers

Code:-

```
class SumOfNumber
{
public static void main(String args[])
{
int a = 22, b = 11, c;
c = a + b;
System.out.println("The sum of numbers is: "+c);
}
}
```

Output:- The sum of numbers is: 33

3 . Simple interest

Code:-

```
public class Main
{
public static void main (String args[])
{ float p, r, t, si;
p = 13000; r = 12; t = 2;
```

```
        si = (p*r*t)/100;
        System.out.println("Simple Interest is: "
+si);
    }
}
```

Output :-

Simple intrest :-3120.0

4.Changing Claudius to Fahrenheit.

Code:-

```
import java.util.*;
```

```
public class Main{
```

```
    public static void main(String[] args){
```

```
        Scanner sc = new Scanner(System.in);
```

```
        System.out.println("Enter the temperature in
Celsius : ");
```

```
        float c = sc.nextFloat();
```

```
        float f = c * (9.0f/5.0f) + 32;
```

```
        System.out.println("The temperature is "+f+"
degree Fahrenheit.");
```

}

}

Output:-

Enter the temperature in Celsius :

44

The temperature is 111.2 degree Fahrenheit.

5 . finding given number is odd or even.

Code:-

```
import java.util.Scanner;
```

```
public class EvenOdd {
```

```
    public static void main(String[] args) {
```

```
        Scanner reader = new Scanner(System.in);
```

```
        System.out.print("Enter a number: ");
```

```
        int num = reader.nextInt();
```

```
        if(num % 2 == 0)
```

```
            System.out.println(num + " is even");
```

```
        else
```

```
            System.out.println(num + " is odd");
```

```
    }
```

```
}
```

Output:- Enter a number: 5
5 is odd

6 . Leaf Year

Code:-

```
import java.util.Scanner;
class Leapyear
{
    public static void main(String arg[])
    {
        long a,y,c;
        Scanner sc=new Scanner(System.in);
        System.out.print("enter any calendar year
:");
        y=sc.nextLong();
        if(y!=0)
        {

            a=(y%400==0)?(c=1):((y%100==0)?(c=0):((y%
4==0)?(c=1):(c=0)));
            if(a==1)
                System.out.println(y+" is a leap
year");
            else
```

```

        System.out.println(y+" is not a leap
year");
    }
    else
        System.out.println("year zero does not
exist ");
    }
}

```

Output:- enter any calendar year :2022
2022 is not a leap year

7 . Eligibility for voting

Code:-

```

import java.util.Scanner;

public class Voting {
    public static void main(String[] args)
    {
        int age, diff;
        Scanner scan = new Scanner(System.in);
        System.out.println("Please enter your age: ");
        age = scan.nextInt();
        if(age>=18)
        {

```

```

        System.out.println("You are eligible for
voting.");
    }
    else
    {
        diff = (18 - age);
        System.out.println("Sorry,You can vote after: "+
diff + " years");
    }
}
}

```

Output:- Please enter your age: 20
You are eligible for voting.

8 . Finding given number is positive or negative or zero.

Code:-

```

import java.util.Scanner;
public class CheckPositiveOrNegativeExample2
{
    public static void main(String[] args)
    {
        int num;
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number: ");
        num = sc.nextInt();
    }
}

```



```
if(num>0)
{
System.out.println("The number is positive.");
}
else if(num<0)
{
System.out.println("The number is negative.");
}
else
{
System.out.println("The number is zero.");
}
}
}
```

Output:- Enter a number: 55
The number is positive.

10 . Sum of service

Code :-

```
import java.util.Scanner;
public class SumOfNaturalNumber3
{
public static void main(String[] args)
{
int num, i, sum = 0;
```

```
Scanner sc = new Scanner(System.in);
System.out.print("Sum from: ");
i = sc.nextInt();
System.out.print("Sum up to: ");
num = sc.nextInt();
while(i <= num)
{
    sum = sum + i;
    i++;
}
System.out.println("Sum of Natural Numbers = " +
sum);
}
```

Output:-

Sum from: 1

Sum up to: 20

Sum of Natural Numbers = 210

11 . Fibonacci numbers

Code:-

```
class Main {
    public static void main(String[] args) {

        int n = 10, firstTerm = 0, secondTerm = 1;
```

```
System.out.println("Fibonacci Series till " + n + "
terms:");
```

```
for (int i = 1; i <= n; ++i) {
    System.out.print(firstTerm + ", ");
    int nextTerm = firstTerm + secondTerm;
    firstTerm = secondTerm;
    secondTerm = nextTerm;
}
}
```

Output:-

Fibonacci Series till 10 terms:

0, 1, 1, 2, 3, 5, 8, 13, 21, 34,

12 . Prime number or not.

Code:-

```
public class PrimeExample{
    public static void main(String args[]){
        int i,m=0,flag=0;
        int n=3;
        m=n/2;
        if(n==0 || n==1){
            System.out.println(n+" is not prime number");
        }else{
```

```

for(i=2;i<=m;i++){
    if(n%i==0){
        System.out.println(n+" is not prime number");
        flag=1;
        break;
    }
}
if(flag==0) { System.out.println(n+" is prime
number"); }
}
}

```

Output:- 3 is prime number

13 . Armstrong number .

Code:-

```

import java.util.Scanner;
import java.lang.Math;
public class ArmstrongNumberExample2
{
    static boolean isArmstrong(int n)
    {
        int temp, digits=0, last=0, sum=0;
        temp=n;
        while(temp>0)

```

```
{
temp = temp/10;
digits++;
}
temp = n;
while(temp>0)
{
last = temp % 10;
sum += (Math.pow(last, digits));
temp = temp/10;
}
if(n==sum)
return true;
else return false;
}
public static void main(String args[])
{
int num;
Scanner sc= new Scanner(System.in);
System.out.print("Enter the number: ");
//reads the limit from the user
num=sc.nextInt();
if(isArmstrong(num))
{
System.out.print("Armstrong ");
}
}
```

```
else
{
System.out.print("Not Armstrong ");
}
}
}
```

Output:-

Enter the number: 153

Armstrong

14 . Reverse the number .

Code:-

```
import java.util.Scanner;
public class ReverseNumberExample3
{
public static void reverseNumber(int number)
{
if (number < 10)
{
System.out.println(number);
return;
}
else
{
System.out.print(number % 10);
```

```

reverseNumber(number/10);
}
}
public static void main(String args[])
{
System.out.print("Enter the number that you want
to reverse: ");
Scanner sc = new Scanner(System.in);
int num = sc.nextInt();
System.out.print("The reverse of the given number
is: ");
reverseNumber(num);
}
}

```

Output:- Enter the number that you want to
reverse: 4569

The reverse of the given number is: 9654

15 . Palindrome number or not .

Code:-

```

import java.util.*;
public class Main
{
    public static void main(String[] args)

```

```

{
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter the number: ");
    int num=sc.nextInt();
    int r,sum=0;
    int temp=num;
    while(num>0)
    {
        r=num%10;
        sum=(sum*10)+r;
        num=num/10;
    }
    if(temp==sum)
        System.out.println("The entered number
"+temp+" is a palindrome number ");
    else
        System.out.println("The entered number
"+temp+" is not a palindrome");
    }
}

```

Output:-

Enter the number: 12321

The entered number 12321 is a palindrome number.

